

Title (en)

A coating system for a component of a turbomachine and a method for generating a coating system

Title (de)

Beschichtungssystem für Komponenten einer Turbomaschine und Verfahren zum Erzeugen eines Beschichtungssystems

Title (fr)

Système de revêtement pour composant d'une turbomachine et procédé de génération d'un système de revêtement

Publication

**EP 2881491 A1 20150610 (EN)**

Application

**EP 13196057 A 20131206**

Priority

EP 13196057 A 20131206

Abstract (en)

A turbo machine coating system for coating a portion of a component of a turbo machine, comprises, in addition to the standard bond coat layer to be arranged on the portion of the component, a first ceramic coating layer to be arranged over the portion to be coated and on the bond coat layer and an abradable, second ceramic coating layer, wherein the second ceramic coating layer is arranged on the first ceramic coating layer. Therein, the abradable, second ceramic coating layer is a porous coating layer comprising full-stabilized Yttrium Zirconium oxide. Thus, the second ceramic coating layer comprises the attributes of an abrasion layer. I.e. the second ceramic coating layer is supposed to wear, for example during operation of the turbomachine.

IPC 8 full level

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CPC (source: EP)

**C23C 4/11** (2016.01); **C23C 4/134** (2016.01); **C23C 4/18** (2013.01); **C23C 28/042** (2013.01); **C23C 28/048** (2013.01); **F01D 5/288** (2013.01); **F05D 2230/312** (2013.01); **F05D 2300/20** (2013.01); **F05D 2300/2118** (2013.01); **F05D 2300/514** (2013.01)

Citation (search report)

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- [XA] WO 2007112783 A1 20071011 - SIEMENS AG [DE], et al
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Designated contracting state (EPC)

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Designated extension state (EPC)

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DOCDB simple family (application)

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